# Dynamical Aspects in the Optical Bloch Equations

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#### and

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# **Dynamical Aspects Final Researchgate**

James Read, Nicholas J. Teh

#### **Dynamical Aspects Final Researchgate:**

Employment Guarantee Programme and Dynamics of Rural Transformation in India Madhusudan Bhattarai, P.K. Viswanathan, Rudra N. Mishra, Cynthia Bantilan, 2018-06-08 This book offers an assessment of the performance impact and welfare implications of the world's largest employment guarantee programme the Mahatma Gandhi National Rural Employment Guarantee Act MGNREGA Launched by the Indian government the programme covers entire rural area of the country The book presents various micro level analyses of the programme and its heterogeneous impacts at different scales almost a decade after its implementation While there are some doubts over the future of the scheme as well as its magnitude nature and content the central government appears committed to it as a convergence scheme of various other welfare and rural development programmes being implemented at both national and state level The book discusses the outcomes of the programme and offers critical insights into the lessons learnt not only in the context of India but also for similar schemes in countries in South and South East Asia as well as in Africa and Latin America Adopting inter disciplinary perspectives in analysing these issues this unique book uses a judicious mix of methods integrating quantitative and qualitative tools and will be an invaluable resource for analysts NGOs policymakers and academics alike **Geographical Information System and Crime Mapping** Monika Kannan, Mehtab Singh, 2020-11-29 Geographical Information System and Crime Mapping features a diverse array of Geographic Information System GIS applications in crime analysis from general issues such as GIS as a communication process interjurisdictional mapping and data sharing to specific applications in tracking serial killers and predicting violence prone zones It supports readers in developing and implementing crime mapping techniques The distribution of crime is explained with reference to theories of human ecology transport network built environment housing markets and forms of urban management including policing Concepts are supported with relevant case studies and real time crime data to illustrate concepts and applications of crime mapping Aimed at senior undergraduate graduate students professionals in GIS Crime Analysis Spatial Analysis Ergonomics and human factors this book Provides an update of GIS applications for crime mapping studies Highlights growing potential of GIS for crime mapping monitoring and reduction through developing and implementing crime mapping techniques Covers Operational Research Spatial Regression model Point Analysis and so forth Builds models helpful in police patrolling surveillance and crime mapping from a technology perspective Includes a dedicated section on case studies including exercises and data samples **Advances in Social Simulation** Corinna Elsenbroich, Harko Verhagen, 2024-07-20 This book contains the proceedings of the 18th Social Simulation Conference SSC and covers the state of the art of social simulation modeling The SSC is the annual conference of the European Social Simulation Association ESSA and the major global conference devoted to this topic It is aimed at promoting social simulation and computational social science The book is the biggest collection of agent based modeling research It covers all aspects of modeling from theory and philosophy of modeling to question of model design purpose and

structure using data visualization model interrelation and open modeling This book is targeted at researchers in social simulation regardless of disciplinary backgrounds across career stages and different sectors such as academia industry and policy Egalitarian Dynamics Bruce Kapferer, Marina Gold, 2024 Liminality the state of being betwixt and between is one of anthropology s most influential concepts This volume reconsiders Victor Turner s innovative extension of Arnold Van Gennep s concept of liminality from within the Manchester tradition of Social Anthropology established by Max Gluckman Turner s work was grounded in ethnography and engaged with philosophical perspectives in varied socio historical contexts extending well beyond the confines of the anthropology that initially inspired much of his work Liminality has therefore become a concept with broad interdisciplinary reach Engaging with topical issues across the globe from neuroscience to open access publishing and refugee experiences in Europe this volume launches Turner s fundamental work into the future

Computational Intelligence for Managing Pandemics Aditya Khamparia, Rubaiyat Hossain Mondal, Prajoy Podder, Bharat Bhushan, Victor Hugo C. de Albuquerque, Sachin Kumar, 2021-09-07 This book uncovers the stakes and possibilities of handling pandemic diseases with the help of Computational Intelligence using cases and applications from the current Covid 19 pandemic The book chapters will focus on the application of CI and its related fields in managing different aspects of Covid 19 including modelling of the disease spread data driven prediction identification of disease hotspots and medical decision support Families as Complex Systems Ana Teixeira de Melo, 2025-06-30 This book presents an innovative framework for conceptualising families as complex systems and for understanding and supporting positive change adaptation and resilience The development of this framework was based on a qualitative and abductive research process targeting change and resilience processes in multi challenged families. The theoretical novelty of this book is mostly expressed in the notion of Love Force a relational force emerging from the coupling processes between individuals with potential transformative effects on them their interactions and environments This book introduces a new vocabulary for understanding the complexity of families as complex systems and their change and resilience processes Love Force is presented as a supreme expression of the complexity of families and human bonds It elaborates on the complexity of the family bonds on the relation of Love Force to change and resilience and its contributions to the conceptualisation of the Potential for Family Change Raising important theoretical and methodological challenges and questions it presents a guide for future interdisciplinary research in the domains of complexity and family sciences and advances in practice As such it will be of interest to anyone interested in the complexity of human relations and to complexity scientists as much as family theorists researchers and practitioners The Worldwide List of Alternative Theories and Critics Jean de Climont, 2020-11-01 This Worldwide List of Alternative Theories and Critics only avalailable in english language includes scientists involved in scientific fields The 2023 issue of this directory includes the scientists found in the Internet The scientists of the directory are only those involved in physics natural philosophy The list includes 9700 names of scientists

doctors or diplome engineers for more than 70% Their position is shortly presented together with their proposed alternative theory when applicable There are nearly 3500 authors of such theories all amazingly very different from one another The main categories of theories are presented in an other book of Jean de Climont THE ALTERNATIVE THEORIES **Fuzzy** Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-02-22 There are a myriad of mathematical problems that cannot be solved using traditional methods The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties Fuzzy Systems Concepts Methodologies Tools and Applications is a comprehensive reference source on the latest scholarly research and developments in fuzzy rule based methods and examines both theoretical foundations and real world utilization of these logic sets Featuring a range of extensive coverage across innovative topics such as fuzzy logic rule based systems and fuzzy analysis this is an essential publication for scientists doctors engineers physicians and researchers interested in emerging perspectives and uses of fuzzy systems in various sectors **Computer Supported Cooperative Work and Social Computing** Yuging Sun, Tun Lu, Buging Cao, Hongfei Fan, Dongning Liu, Bowen Du, Liping Gao, 2022-07-21 The two volume set CCIS 1491 and 1492 constitutes the refereed post conference proceedings of the 16th CCF Conference on Computer Supported Cooperative Work and Social Computing ChineseCSCW 2021 held in Xiangtan China November 26 28 2021 The conference was held in a hybrid mode i e online and on site in Xiangtan due to the COVID 19 crisis The 65 revised full papers and 22 revised short papers were carefully reviewed and selected from 242 submissions. The papers are organized in the following topical sections Volume I Collaborative Mechanisms Models Approaches Algorithms and Systems Cooperative Evolutionary Computation and Human like Intelligent Collaboration Domain Specific Collaborative Applications Volume II Crowd Intelligence and Crowd Cooperative Computing Social Media and Online Communities Religion in the Age of **Re-Globalization** Roland Benedikter, 2021-12-13 This book provides a concise introduction into twenty one trends that are transforming the role of religion and spirituality in re globalizing societies In referring to processes of re globalization the book draws attention to profound ongoing changes in the patterns and mechanisms of contemporary globalization Inter and transdisciplinary in its approach clearly structured and easy to read the book analyzes the impact of religious self understanding rhetoric and practice on five core fields economics politics culture demography and technology In turn it describes the effects of these five fields on religion and spirituality themselves This book represents a broad encompassing overview of the main transformations that religion is undergoing today Roland Benedikter combines a big picture approach with a keen attention to the details of specific case studies With its clear and accessible structure and timely examples this book is ideally suited for students of international relations and religious studies and will also appeal to researchers engaged in those fields and to interested general readers The book is also apt to serve as an encompassing basis for contemporary debates in civil society including both grassroots and expert discussions Biometric Authentication in Online Learning

Environments Kumar, A.V. Senthil, 2019-02-15 Student assessment in online learning is submitted remotely without any face to face interaction and therefore student authentication is widely seen as one of the major challenges in online examination Authentication is the process of determining whether someone or something is in fact who or what it is declared to be As the dependence upon computers and computer networks grows especially within education the need for authentication has increased Biometric Authentication in Online Learning Environments provides innovative insights into biometrics as a strategy to mitigate risk and provide authentication while introducing a framework that provides security to improve e learning and on line examination by utilizing biometric based authentication techniques. This book examines e learning security threats in online exams security considerations and biometric technologies and is designed for IT professionals higher education administrators professors researchers business professionals academicians and libraries seeking topics centered on biometrics as an authentication strategy within educational environments Management, Innovation and Entrepreneurship in Challenging Global Times Gabriela I. Prostean, Juan J. Lavios, Laura Brancu, Faruk Şahin, 2024-04-23 Management Innovation and Entrepreneurship in Challenging Global Times begins to address the need for a response to unprecedented global situations that require large scale cooperation as well as individual organizational and institutional changes Embodying the proceedings of the 16th International Symposium in Management held in Timisoara Romania in October 2021 this book gathers interdisciplinary and multidisciplinary studies which highlight less high profile research concepts in management and industrial engineering The contributions discuss details of state of the art business process management techniques that integrate innovative methods with technologies that promote organizational agility The methodologies used are sparking breakthroughs in entrepreneurship financial management supply chain management and sustainability management Other contributions deal with the important process of digitization which underlies the Industry 4 0 idea and raises issuesacross the fields discussed in this volume Related areas such as management information systems and business philosophies that adapt and use contemporary approaches to maximize organizational knowledge feature among the contributions Similarly reflecting the role of small and medium sized enterprises in catalyzing economic growth part of the book focuses on a set of tools and techniques designed for their benefit This book assembles contributions from international sources that will help researchers and students interested in industrial and business management to tackle problems that persist from the economic crisis of the late 2000s right up to those that arise as a result of the COVID 19 pandemic of the early 2020s Advances in Smart Cities Arpan Kumar Kar, M P Gupta, P. Vigneswara Ilavarasan, Yogesh K. Dwivedi, 2017-07-28 This is an edited book based on the selected submissions made to the conference titled International Conference in Smart Cities The project provides an innovative and new approach to holistic management of cities physical socio economic environmental transportation and political assets across all domains typically supported by ICT and open data Systemische Praxis und Buddhismus Corina Aguilar-Raab, 2020-12-14 Achtsamkeit und Mitgef hl als s kulare

Techniken und Haltungen scheinen R ume fr die Beantwortung von Bed rfnissen zu er ffnen die wir alle haben Wir sehnen uns nach Entschleunigung R ckbesinnung Akzeptanz Wohlwollen und universellen menschlichen Werten Die wenigsten sind jedoch mit den Grundlagen von Achtsamkeit und Mitgef hl vertraut die ihren Ursprung im Buddhismus haben Systemische Ans tze Methoden und Haltungen weisen hnlichkeiten mit denen buddhistischer Denkfiguren auf so dass ein Synergieversuch naheliegt Wie k nnen wir als Therapeutinnen und Berater Achtsamkeit und Mitgef hl fr uns selbst aber auch in den Arbeitsprozess mit unseren Klientinnen und Klienten einflie en lassen Wie k nnen diese Aspekte unsere professionellen Beziehungen und unsere Gestaltungsspielr ume bereichern Dieses Buch ist fralle gedacht die sich in ihrer beraterischen und therapeutischen Arbeit und in ihrem Selbstreflexionsprozess inspirieren lassen wollen Finance and Law in the Metaverse World Nadia Mansour, Lorenzo M. Bujosa Vadell, 2024-12-05 This edited volume examines the impact of the metaverse on finance and law As the commercial development of the internet and digital technology has done for more than thirty years the metaverse phenomenon raises questions about the relevance of existing legal rules in dealing with new practices between the need for adaptation evolution or new rules While the Blockchain ecosystem has developed steadily over the last few years and its applications are still evolving can we assume that the metaverse will become the most prodigious phenomenon of the 21st century The term metaverse refers to a virtual world Technically using known but evolving technologies the term refers to a network of 3D virtual worlds In its current state of development there is a metaverse and not a single virtual world as there is an internal one simply because its development is still dependent on proprietary technologies. The development of the metaverse is no less accurate and a few recent examples suggest that lawyers will not be able to escape this phenomenon which looks set to involve individuals companies and institutions The financial world is not immune to the emergence of the metaverse either Traditional finance is moving into new virtual worlds Several banks and insurance companies are entering this world far removed from their traditions Some have even set up branches there However what are these financial institutions trying to achieve by entering this market segment This book addresses these questions with contributions from academics and experts from both fields **Collected Papers. Volume** XIII Florentin Smarandache, 2022-09-15 This thirteenth volume of Collected Papers is an eclectic tome of 88 papers in various fields of sciences such as astronomy biology calculus economics education and administration game theory geometry graph theory information fusion decision making instantaneous physics quantum physics neutrosophic logic and set non Euclidean geometry number theory paradoxes philosophy of science scientific research methods statistics and others structured in 17 chapters Neutrosophic Theory and Applications Neutrosophic Algebra Fuzzy Soft Sets Neutrosophic Sets Hypersoft Sets Neutrosophic Semigroups Neutrosophic Graphs Superhypergraphs Plithogeny Information Fusion Statistics Decision Making Extenics Instantaneous Physics Paradoxism Mathematica Miscellanea comprising 965 pages published between 2005 2022 in different scientific journals by the author alone or in collaboration with the following 110 co authors

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Leveraging Emerging Technologies and Analytics for Empowering Humanity, Vol. 1 D P Goyal, Suprateek Sarker, Somnath Mukhopadhyay, Basav Roychoudhury, Parijat Upadhyay, Pradeep Kumar Dadabada, 2025-05-15 This book provides a platform for interdisciplinary discussions on leveraging emerging technologies and analytics to empower humanity fostering collaboration between experts in AI and analytics sustainability different areas of management and IT As the world

grapples with complex challenges from climate change to economic inequality this first volume of a two volume proceedings series is a crucial resource for fostering collaboration and exploring untapped potential of emerging technologies By harnessing the power of AI blockchain IoT and big data the chapters address critical global challenges towards improving quality of life and promoting inclusive and sustainable development while keeping in mind ethical implications and their impact on social justice. The volume will be of use to thought leaders researchers innovators and policymakers from around the globe who are interested in knowing more on how cutting edge technologies can be harnessed for the greater good of In-Silico Approaches to Macromolecular Chemistry Minu Elizabeth Thomas, Jince Thomas, Sabu Thomas, Haya Kornweitz, 2023-02-28 Computational approaches offer researchers unique insights into the structure characteristics and properties of macromolecules However with applications across a broad range of areas various methods have been developed for exploring macromolecules in in silico therefore it can be difficult for researchers to select the most appropriate method for their specific needs Covering both biopolymers and synthetic polymers In Silico Approaches to Macromolecular Chemistry familiarizes readers with the theoretical tools and software appropriate for such studies In addition to providing essential background knowledge on both computational tools and macromolecules the book presents in depth studies of in silico macromolecule chemistry discusses and compares these with experimental studies and highlights the future potential for such approaches Written by specialists in their respective fields this book helps students researchers and industry professionals gain a clear overview of the field and furnishes them with the knowledge needed to understand and select the most appropriate tools for conducting and analyzing computational studies Highlights in silico studies of both bio and synthetic macromolecules in one book Supports both learners and experts though a combination of detailed guidance and perspectives on the future potential for in silico approaches to macromolecules Familiarizes readers with theoretical tools and software helping them select the best approach for their specific needs The Philosophy and Physics of Noether's Theorems James Read, Nicholas J. Teh, 2022-09-29 In 1918 Emmy Noether in her paper Invariante Variations probleme proved two theorems and their converses on variational problems that went on to revolutionise theoretical physics 100 years later the mathematics of Noether's theorems continues to be generalised and the physical applications of her results continue to diversify This centenary volume brings together world leading historians philosophers physicists and mathematicians in order to clarify the historical context of this work its foundational and philosophical consequences and its myriad physical applications Suitable for advanced undergraduate and graduate students and professional researchers this is a go to resource for those wishing to understand Noether's work on variational problems and the profound applications which it finds in contemporary physics

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